

# Hydrogen Energy

## Scaling up the supply chain

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# Scale Effect & Resulting opportunities



Cost competitiveness

Environmental  
benefits

Reliability

# Bridge the gap!



Early Stage

Ramping-up  
**"The bridge"**

Mature Market

<b>Cost Competitiveness</b>	Existing assets Key cost component: Distribution	Dedicated assets Key cost component: CAPEX	Dedicated network Key cost component: OPEX
<b>Environmental benefits</b>	Incentivized	Core	Prerequisite
<b>Reliability</b>	"As available"	Dedicated supply chain w/ Back-up	Redundancy Multi-technology Multi-channel

# Last 6 months in review: Building-up “The Bridge”

## Air Liquide to build first world scale liquid hydrogen production plant dedicated to the supply of Hydrogen energy markets

Press release | Monday, November 26, 2018

## Air Liquide makes a strategic investment in the production of decarbonized hydrogen by electrolysis

Press release | Thursday, January 24, 2019

## Air Liquide inaugurates landfill biomethane production plant in U.S.

News | Friday, July 20, 2018

## Air Liquide signs long-term power purchase agreement for renewable electricity

Press release | Friday, November 30, 2018

## Climate: Air Liquide announces a 30% reduction objective in its carbon intensity between 2015 and 2025, and confirms its commitment to low carbon growth

Press release | Friday, November 30, 2018

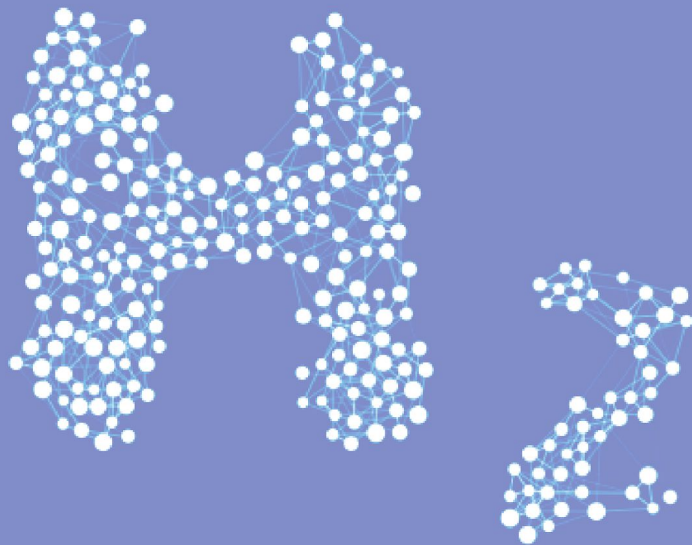
## Air Liquide inaugurates a pilot site for the production of carbon-free hydrogen in Denmark

Press release | Monday, September 3, 2018



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Thank you,

Q&A ?